

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	f Transmittal of International Search Report
PU5004WO	ACTION (Form PC1/ISA/2	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 03/39740	12/12/2003	13/12/2002
Applicant		<u> </u>
SMITHKLINE BEECHAM CORPORA	TION	
according to Article 18. A copy is being tra		ority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of8 sheets. a copy of each prior art document cited in this	report.
Basis of the report		
 a. With regard to the language, the is language in which it was filed, unle 	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this
was carried out on the basis of the contained in the internation filed together with the inter	I/or amino acid sequence disclosed in the int sequence listing: nal application in written form. national application in computer readable form this Authority in written form.	ernational application, the international search
	this Authority in computer readble form.	
the statement that the subsinternational application as	sequently furnished written sequence listing do	es not go beyond the disclosure in the
		identical to the written sequence listing has been
2. X Certain claims were found	d unsearchable (See Box I).	
3. Unity of invention is lacki	ing (see Box II).	
4. With regard to the title,		
X the text is approved as sub	mitted by the applicant.	
the text has been established	ed by this Authority to read as follows:	
5. With regard to the abstract , the text is approved as sub- the text has been established.	ed, according to Rule 38.2(b), by this Authority	as it appears in Box III. The applicant may,
6. The figure of the drawings to be publish	late of mailing of this international search repo	rτ, submit comments to this Authority.
as suggested by the applica	-	None of the figures.
because the applicant failed		
because this figure better cl		
form PCT/ISA/010 (first sheet) / hits 1000)	-	



PCT/US 03/39740

Box III	TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)
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International Application No PCT/US 03/39740

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D451/02 C07D413/06 C07D413/14 C07D471/10 C07D417/14
A61K31/46 A61P31/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{localization} \begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07D} & \mbox{A61K} & \mbox{A61P} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 00/58292 A (SANOFI-SYNTHELABO) 5 October 2000 (2000-10-05) claim 1; examples	1-25
X	WO 96/23787 A (SANOFI) 8 August 1996 (1996-08-08) claim 1; examples	1-25
X	WO 02/094821 A (SANOFI-SYNTHELABO) 28 November 2002 (2002-11-28) claim 1; examples	1-25
X	EDMONDS-ALT ET AL.: THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 303, no. 3, 2002, pages 1171-79, XP002280312 figure 1	1-25
	-/	

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
14 May 2004	03/06/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lauro, P



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ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
ALI ET AL.: BIOORG. MED. CHEM. LETT., vol. 11, 2001, pages 819-822, XP002280313 figure 1A	1-25
NISHI ET AL.: BIOORG. MED. CHEM. LETT., vol. 10, 2000, pages 1665-68, XP002280314 examples	1-25
JP 01 031570 A (SANKYO) 1 February 1989 (1989–02–01) examples	1-25
WO 02/079194 A (SCHERING CORP) 10 October 2002 (2002-10-10) the whole document	1-42
WO 02/05819 A (BONDINELL WILLIAM E; SMITHKLINE BEECHAM CORP (US); NEEB MICHAEL J) 24 January 2002 (2002-01-24) the whole document	1-42
PALANI A ET AL: "Discovery of 4-'(Z)-(4-Bromophenyl)-(ethoxyimino)methyl !-1'-'(2,4-dim ethyl-3-pyridinyl)carbonyl!-4'-methyl-1,4'-bipiperidine N-Oxide (SCH 351125): An Orally Bioavailable Human CCR5 Antagonist for the Treatment of HIV Infection" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 44, no. 21, 11 October 2001 (2001-10-11), pages 3339-3342, XP002220286 ISSN: 0022-2623 the whole document	1-42
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	ALI ET AL.: BIOORG. MED. CHEM. LETT., vol. 11, 2001, pages 819-822, XP002280313 figure 1A NISHI ET AL.: BIOORG. MED. CHEM. LETT., vol. 10, 2000, pages 1665-68, XP002280314 examples JP 01 031570 A (SANKYO) 1 February 1989 (1989-02-01) examples W0 02/079194 A (SCHERING CORP) 10 October 2002 (2002-10-10) the whole document W0 02/05819 A (BONDINELL WILLIAM E; SMITHKLINE BEECHAM CORP (US); NEEB MICHAEL J) 24 January 2002 (2002-01-24) the whole document PALANI A ET AL: "Discovery of 4-'(Z)-(4-Bromophenyl)-(ethoxyimino)methyl!-1'-'(2,4-dim ethyl-3-pyridinyl)carbonyl!-4'-methyl-1,4'-bipiperidine N-Oxide (SCH 351125): An Orally Bioavailable Human CCR5 Antagonist for the Treatment of HIV Infection" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 44, no. 21, 11 October 2001 (2001-10-11), pages 3339-3342, XP002220286 ISSN: 0022-2623 the whole document W0 02/081449 A (NOVARTIS ERFIND VERWALT GMBH; ALBERT RAINER (CH); NOVARTIS AG (CH)) 17 October 2002 (2002-10-17)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1--42 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds of formula (I) in which B-R1 represents a 6-phenyl-1,3-oxazinanyl or a 2-phenyl morpholinyl (i.e. R1 is phenyl) which are supported by the examples.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims $26-30,40-42$ are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4 r	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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